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DETAILED DESCRIPTION OF THE INVENTION

IN THE CLAIMS:

Please cancel claims 1-27 without prejudice or disclaimer.

Please add the following new claims:

28. A heating device comprising a main housing (4) defining a combustion chamber (6) within which fuel gas is converted to heat for heating the main housing (4), an exhaust gas port (15) from the combustion chamber (6) for exhausting burnt gases therefrom, a working body member (5) of heat conductive material in heat conducting engagement with the main housing (4) for receiving heat therefrom, and a passageway (33) extending from the exhaust gas port (15) to an exhaust gas outlet (34) past the working body member (5) for accommodating exhaust gases from the exhaust gas port (15) to the exhaust gas outlet (34) for transferring heat from the exhaust gases to the working body member (5), characterised in that a heat exchange means (45,46) comprising a plurality of spaced apart heat exchange fins (45, 46) extend from the working body member (5) into the passageway for transferring heat from the exhaust gases to the working body member (5) for reducing the temperature at which the exhaust gases exit from the heating device (3) through the exhaust gas outlet (34), and the heat exchange fins define a circuitous exhaust gas passageway (33) through which the exhaust gases pass between the exhaust gas port (15) and the exhaust gas outlet (33).

29. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) extend from the working body member (5) in a staggered formation for forming the circuitous exhaust gas passageway (33).

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30. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) are parallel or inclined to each other.

31. A heating device as claimed in Claim 28 characterised in that a cover (30) is provided around the working body member (5) adjacent the heat exchange fins (45,46) for defining with the working body member (5) and the heat exchange fins (45,46), the exhaust gas passageway (33).

32. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) extend on respective opposite sides of the working body member (5) for defining a pair of passageways (33) extending on both sides of the working body member (5).

33. A heating device as claimed in Claim 32 characterised in that the respective passageways (33) merge adjacent the exhaust gas port (15) and adjacent the exhaust gas outlet (34).

34. A heating device as claimed in Claim 28 characterised in that the main housing (4) is an elongated main housing defining an elongated combustion chamber (6) extending from an upstream end (7) to a downstream end (8), the exhaust gas port (15) being located adjacent the downstream end (8), the heat exchange fins (45,46) being located on the working body member (5) adjacent the downstream end (8) of the main housing (4).

35. A heating device as claimed in Claim 34 characterised in that the working body member (5) extends longitudinally along the main housing (4) from the upstream end (7) to the downstream end (8) thereof, and preferably, a portion (25) of the working body member (5) extends in a downstream direction beyond the downstream end (8) of the main housing (4), and

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the heat exchange fins (45,46) are located adjacent the portion (25) of the working body member (5) extending downstream beyond the working body member (5).

36. A heating device as claimed in Claim 28 characterised in that the working body member (5) defines a heating chamber (20) for receiving and melting hot melt glue therein, and a dispensing nozzle (25) extends from the working body member (5) communicating with the heating chamber (20) for receiving and dispensing melted glue therefrom, and preferably, the heating chamber (20) is an elongated heating chamber (20) extending between an upstream end (21) and a downstream end (22), the dispensing nozzle (25) extending in a generally downstream direction from the downstream end (22) of the working body member (5).

37. A heating device as claimed in Claim 36 characterised in that the heat exchange fins (45,46) are located adjacent the dispensing nozzle (25), and preferably, the heat exchange fins (45,46) extend transversely from the dispensing nozzle (25) on respective opposite sides thereof in an upstream/downstream direction relative to the heating chamber (20).

38. A heating device as claimed in Claim 36 characterised in that the dispensing nozzle (25) extends axially from the working body member (5) relative to the heating chamber (20), and preferably, the dispensing nozzle (25) extends co-axially with the heating chamber (20) from the working body member (5).

39. A heating device as claimed in Claim 36 characterised in that a glue receiving inlet (23) is provided at the upstream end (21) of the heating chamber (20) for receiving glue into the heating chamber (20) in an elongated stick form, and preferably, the glue receiving inlet (23) receives the glue stick co-axially with the heating chamber (20).

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40. A heating device as claimed in Claim 36 characterised in that the working body member (5) is located relative to the main housing (4) so that the heating chamber (20) and the combustion chamber (6) extend parallel to each other.

41. A heating device as claimed in Claim 28 characterised in that a fuel gas inlet (11) is located at the upstream end (7) of the combustion chamber (6) for receiving fuel gas for converting to heat in the combustion chamber (6).

42. A heating device as claimed in any Claim 28 characterised in that a gas catalytic combustion element (10) is located in the combustion chamber (6) for converting fuel gas to heat.

43. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet (34) to a temperature approximately similar to the temperature of the working body member.

44. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet (34) to a temperature approaching the temperature of the working body member.

45. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet (34) to a temperature just slightly above the temperature of the working body member adjacent the heat exchange fins (45, 46).

46. A heating device as claimed in Claim 28 characterised in that the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas

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outlet (34) to a temperature not greater than 50°C above the temperature of the working body member adjacent the heat exchange fins (45, 46), and preferably, the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet (34) to a temperature not greater than 15°C above the temperature of the working body member adjacent the heat exchange fins (45, 46), and advantageously, the heat exchange fins (45,46) are adapted for reducing the temperature of the exhaust gases exiting the exhaust gas outlet (34) to a temperature not greater than 5°C above the temperature of the working body member adjacent the heat exchange fins (45, 46).

47. A glue gun characterised in that the glue gun (1) comprises the heating device (3) claimed in claim 28.

IN THE ABSTRACT:

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.